Michigan Refining Division

Marathon Petroleum Company LP

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

VIA FEDERAL EXPRESS

April 13, 2011

Ms. Teresa Seidel
Michigan DNRE – Air Quality Division
3058 West Grand Blvd.
Suite 2-300
Detroit, MI 48202

Re: Continuous Emissions Monitoring System Reports for the First Quarter 2011; Marathon Petroleum Company LP – Michigan Refining Division

Dear Ms. Seidel:

This report contains information and data related to continuous emissions monitoring systems (CEMS) at Marathon Petroleum Company LP's (MPC's) Michigan Refining Division (MRD) for the first quarter 2011. These reports are submitted pursuant to the General Provisions of the federal New Source Performance Standards (40 CFR 60.7) and Rule 1170 of the Michigan Air Pollution Control Rules. In addition, this report contains information required by the first modification to the November 2005 First Revised NSR Consent Decree, United States of America et. al. v. Marathon Petroleum Company LLC (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008. This report is divided into three attachments as follows:

Appendix A – CEMS downtime and excess emissions summary reports pursuant to 40 CFR 60.7(d) for all environmental analyzers at the Refinery. The CEMS did not exceed the downtime limit of 5% or the excess emission limit of 1%.

Appendix B - New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) data for seven streams: (1) Alky Spent Caustic H2S, (2) CCR/SR Recycle H2 H2S, (3) DHT/Unifiner Recycle H2 H2S, (4) FCCU Disulfide off-gas H2S, (5) CP Spent Caustic Drum Vent H2S, (6) SR Aromatics Sump Vent H2S, and (7) CCR Chlorsorb Vent SO2.

The Refinery has five additional AMPs for which no data is being submitted: (1) The Crude Spent Caustic Drum was permanently shutdown, (2) The BT Recycle Hydrogen, which was part of the BT Platformer unit, was permanently shutdown in September 2005, (3) CCR Lockhopper Vent Gas which currently cannot physically be vented to the flare or fuel system, (4) Propylene Deethanizer off-gas and (5) Alky Deethanizer off-gas were re-routed to a location that the refinery's fuel gas H2S analyzer will receive the streams.

All AMPs were obtained in accordance with the NSPS General Provisions (40 CFR §60.13(i)).

Appendix C – Data from cylinder gas audits performed on CEMS located on the exhaust of the B&W Boiler, Crude and Vacuum Heaters, CCR Charge Heater, Sulfur Plant Thermal Oxidizer, West Plant H2S, FCC Charge Heater, and the Zurn Boiler.

A Relative Accuracy Test Audit (RATA) was conducted on the East Plant H2S CEMS the week of January 18, 2011. Additionally, the Fluid Catalytic Cracking Unit (FCCU) Regenerator NOx and SO2 CEMS were re-ranged from 0-1000 ppm to 0-200 ppm in order to obtain more accurate data where the process normally runs and fulfills the requirements of NSPS Subpart Ja which will be applicable following the DHOUP expansion. Due to the re-range a RATA was conducted on the FCCU Regenerator CEMS and the 7-day calibration drift test was completed the week of March 11, 2011. The details of the FCCU Regenerator CEMS and the East Plant H2S CEMS RATAs and calibration drift information will be submitted separately; specifically this information will be provided in the RATA report required to be submitted within 60 days of the test date.

In October 2009 MDNRE requested MRD conduct a Calibration Gas Audit (CGA) on the Zurn O2 analyzer. MRD's stance has been that this analyzer does not apply to Appendix F, including the CGA which is detailed in Section 5 of Appendix F. However, MRD agreed to begin conducting quarterly CGAs starting first quarter 2010. The CGAs were conducted on the Zurn O2 analyzer successfully in all quarters of 2010 and First Quarter 2011; although, the oxygen cylinders used to conduct the CGAs were not EPA protocol gases. MRD does not feel this is a violation, since the rule is not applicable. MRD will continue to utilize the current oxygen cylinder unless directed differently by your office.

Please note, under the refinery's Title V permit in Table E-1.3, Section III.A.1 it indicates that quarterly cylinder gas audits of the FCCU opacity monitor are required; however, a quarterly cylinder gas audit program does not exist for this type of analyzer. The refinery is maintaining the analyzer according to the PTI 28-02A and completing a yearly audit of the analyzer. The refinery has requested a wording modification in the Title V renewal.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information in Appendices A through C of this submittal is, to the best of my knowledge and belief, true, accurate, and complete. Please contact Tabetha Daum at (313) 297-4701 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner

C T Case

Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc: Technical Programs Unit - MDNRE: AQD – c/o Karen Kajiya-Mills – *Federal Express*

Chief, Environmental Enforcement Section, Environment and Natural Resources Division, U.S. DOJ - *Federal Express*

U.S. EPA, Director of Air Enforcement Division c/o Matrix Environmental and Geotechnical– *Federal Express*

Air and Radiation Division, U.S. EPA Region 5 – *Federal Express*

Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air Quality Division upon request.

Source Name: Marathon Petroleum Company LP — County: Wayne

Source Address: 1300 South Fort Street — City: Detroit

AQD Source ID (SRN): A9831 — ROP No.: 199700013c — ROP Section No.: 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 1/1/2011 To 3/31/2011

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

1st Quarter 2011 Continuous Emission Monitoring (CEMS) Downtime and Excess Emission Report.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

C.T. Case	MPC Investment LLC, its General Partner Deputy Assistant Secretary	313-843-9100
Name of Responsible Official (print or type)	Title	Phone Number

C T Case — 4-14-11

Signature of Responsible Official — Date

* Photocopy this form as needed.

EQP 5736 (Rev 2-10)

Appendix A

CEMS Downtime and Excess Emissions Summary Reports

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: Limas 11 (NOx)

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 0.20 lbs/MMBTU

Emission Unit: BW Boiler

Average Time: daily average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	2.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.09	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: BW Boiler (CO)

Average Time: daily average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	2.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.09 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: BW Boiler (O2)

Average Time: none

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	2.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.09 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 123 ppm
Average Time: 7 day average
Emission Limit: 93 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	32.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	37.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	69.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.19	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 500 ppm

Average Time: one hour average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	32.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	37.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	69.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	3.19 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (SO2)

Manufacturer: ABB

Emission Limit: 70 ppm
Average Time: 7 day average
Emission Limit: 35 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	32.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	37.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	69.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.19	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Magnos 16 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	32.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	37.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	69.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	3.19 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 (Opacity) (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Lighthawk 560

Manufacturer: Teledyne Monitor Labs

Emission Limit: 20% opacity

Average Time: 6 minute average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	5.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.23 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: 2000GC

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Emission Unit: West Plant Fuel Gas NSPS Heaters

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	4.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	4.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	8.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.37	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: East Plant Fuel Gas NSPS Heaters

Monitor Model: 2000 Vista II

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	72.00 hrs
C. Process Problems	1.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	22.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	1.00 hrs	2. Total Duration	97.00 hrs
3. Percent of Total Excess Emissions	0.05 %	3. Percent of Total CEM Downtime	4.49 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

* The sample line froze causing the downtime.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: ENDA-1120

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Horiba

Emission Limit: 0.2 lbs/MMBTU

Average Time: 24 hour average

Emission Unit: Zurn Boiler

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	3.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.14 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: ZA8

Manufacturer: Yokagowa

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	3.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.14 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: LIMAS-11-UV

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB Advance Optima

Emission Limit: 250 ppm

Average Time: 12 hour average

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	26.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	9.00	hrs	C. QA Calibration	4.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	15.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	9.00	hrs	2. Total Duration	45.00	hrs
3. Percent of Total Excess Emissions	0.42	%	3. Percent of Total CEM Downtime	2.08	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

* The sample line froze causing the downtime.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: MAGNOS 106/206

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB Advance Optima

Emission Limit: none

Average Time: none

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	26.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	4.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	15.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	45.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	2.08 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

* The sample line froze causing the downtime.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: daily average

Emission Unit: CCR Charge Heater (CO)

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	32.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	34.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.57 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

* The sample line froze causing the downtime.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Average Time: none

Emission Unit: CCR Charge Heater (O2)

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	32.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	34.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	1.57	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

* The sample line froze causing the downtime.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Charge Heater

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: 1 hour average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	5.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.23 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Average Time: none

Emission Unit: FCCU Charge Heater

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	5.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.23 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.05 lbs/MMBTU

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	2.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.09 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: First 2011

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	2.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.09	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: First 2011

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to CP Flare

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	29.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	29.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.34 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather. Including rain, snow, and fog from cooling tower operations interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: First 2011

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to Alkylation Unit Flare

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	1.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	30.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	31.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.44 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather. Including rain, snow, and fog from cooling tower operations interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: First 2011

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to Unifiner Flare

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	1.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	4.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.23 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather. Including rain, snow, and fog from cooling tower operations interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: First 2011

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LP
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to Crude Flare

Total Operating Hours of Emission Unit: 2160 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	34.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	34.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.57 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather. Including rain, snow, and fog from cooling tower operations interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Appendix B

New Source Performance Standards (NSPS) Subpart J
Alternate Monitoring Plan (AMP) Data

Alternative Monitoring Plan Data

	Complex 2 (AMP Sheet) - A	Complex 4 (Lab Data)	Complex 2 (Lab Data)	
Date	**Alky Spent Caustic H2S ppm** When flaring	**CCR/SR Recycle H2 H2S ppm** 2 x year	**DHT/Unifiner Recycle H2 H2S ppm** 5 x week	
1/1/2011		<1	<1	
1/2/2011		<1	230	*
1/3/2011		<1	60	*
1/4/2011		<1	50	*
1/5/2011		<1	40	*
1/6/2011		<1	20	*
1/7/2011		<1	15	*
1/8/2011		<1	<1	
1/9/2011		<1	10	*
1/10/2011		<1	10	*
1/11/2011		<1	20	*
1/12/2011		<1	<1	
1/13/2011		<1	25	*
1/14/2011	0	<1	1100	*
1/15/2011	0	<1	2000	*
1/16/2011	0	--	1000	*
1/17/2011	0	<1	489	*
1/18/2011	0	<1	1000	*
1/19/2011	0	<1	200	*
1/20/2011	0	<1	200	*
1/21/2011	0	<1	1000	*
1/22/2011	0	<1	ND	
1/23/2011	0	<1	<1	
1/24/2011	0	<1	<1	
1/25/2011	0	<1	<1	
1/26/2011	0	<1	<1	
1/27/2011	0	<1	<1	
1/28/2011	0	<1	<1	
1/29/2011	0	<1	<1	
1/30/2011	0	<1	<1	
1/31/2011	0	<1	<1	
2/1/2011	0	<1	<1	
2/2/2011	0	<1	<1	
2/3/2011	0	<1	<1	
2/4/2011	0	<1	<1	
2/5/2011	0	<1	<1	
2/6/2011	0	<1	<1	
2/7/2011	0	<1	<1	
2/8/2011	0	<1	<1	
2/9/2011	0	<1	<1	
2/10/2011	0	<1	<1	
2/11/2011	0	<1	<1	
2/12/2011	0	<1	<1	
2/13/2011	0	<1	<1	
2/14/2011	0	<1	<1	
2/15/2011	0	<1	<1	
2/16/2011	0	<1	<1	
2/17/2011	0	<1	<1	
2/18/2011	0	<1	40	*
2/19/2011	0	<1	<1	
2/20/2011	0	<1	<1	
2/21/2011	0	<1	<1	
2/22/2011	0	<1	<1	
2/23/2011	0	<1	<1	
2/24/2011	0	<1	<1	
2/25/2011	0	<1	<1	
2/26/2011	0	<1	<1	

2/27/2011	0	<1	<1
2/28/2011	0	<1	<1
3/1/2011		<1	<1
3/2/2011		<1	<1
3/3/2011	0	<1	<1
3/4/2011	0	<1	<1
3/5/2011	0	<1	<1
3/6/2011	0	<1	<1
3/7/2011	0	<1	<1
3/8/2011	0	<1	<1
3/9/2011	0	<1	<1
3/10/2011	0	<1	<1
3/11/2011	0	<1	<1
3/12/2011	0	<1	10 *
3/13/2011	0	<1	<1
3/14/2011	0	<1	<1
3/15/2011	0	<1	<1
3/16/2011	0	<1	<1
3/17/2011	0	<1	<1
3/18/2011	0	<1	<1
3/19/2011	0	<1	<1
3/20/2011	0	<1	<1
3/21/2011	0	<1	<1
3/22/2011	0	<1	<1
3/23/2011	0	<1	<1
3/24/2011	0	<1	<1
3/25/2011	0	<1	<1
3/26/2011	0	<1	<0.05
3/27/2011	0	<1	<1
3/28/2011	0	<1	<1
3/29/2011	0	<1	<1
3/30/2011	0	<1	<1
3/31/2011	0	<1	<1

*No flaring occurred.

	Complex 3 (RADAR) - B		Complex 3 (RADAR) - C		Complex 4 (AMP Sheet) - D		Complex 4 (AMP Sheet) - E
Most Recent Sample Dates	**FCCU Disulfide off-gas H2S ppm** 2 x year	**Most Recent Sample Dates**	**CP Spent Caustic Drum Vent H2S ppm** 2 x year	**Most Recent Sample Dates**	**SR Aromatics Sump Vent H2S ppm** 2 x year	**Most Recent Sample Dates**	**CCR Chlorsorb Vent SO2 ppm** 2 x year
7/5/2010	0	7/5/2010	0	2/23/2011	0	2/16/2010	0
1/4/2011	0	1/4/2011	0	3/31/2011	0	3/30/2011	0

Appendix C

Cylinder Gas Audit (CGA) Information

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: B&W Boiler CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (NOx), Magnos 106 (O2), Uras 14 (CO)

Constituents monitored (w/ranges): NOx (0-500), CO (0-500), O2 (0-10%)

Date CGA performed: 2/8/2011

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	CC320264	01/08/12	128	ppm
76-188-232	CO	low	CC320264	01/08/12	125	ppm
76-188-219	O2	low	EB0006752	12/14/13	5.37	%
76-188-231	NO	mid	EB0016581	03/31/12	275	ppm
76-188-231	CO	mid	EB0016581	03/31/12	273	ppm
76-188-215	O2	mid	SA14533	04/25/11	9.13	%

Low-level CGA:

Start time	End time	NO	CO	O2
10:06	10:19	127	124	5.49
10:19	10:31	126.6	124	5.49
10:31	10:43	127	124	5.49
Average		126.9	124	5.49
Cal gas value		128.0	125	5.37
CGA accuracy		0.9%	0.8%	2.2%

High-level CGA:

Start time	End time	NO	CO	O2
10:45	10:57	274	273	8.96
10:57	11:10	274.5	273	8.95
11:10	11:22	274	273	8.96
Average		274.2	273	8.96
Cal gas value		275.0	273	9.13
CGA accuracy		0.3%	0.1%	1.9%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Crude and Vacuum Heater NOx

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas11 (NOx) and Magnos 106 (O2)

Constituents monitored (w/ranges): NOx (0-100) O2 (0-10%)

Date CGA performed: 1/7/2011

Performed by: Eric Justa and Doug Pek

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-132	NO	low	EB0014050	03/10/11	25.3	ppm
76-188-219	O2	low	EB0007016	10/22/13	5.50	%
76-188-132	NO	mid	EB0025229	12/28/12	52.2	ppm
76-188-215	O2	mid	CC28352	01/09/12	9.02	%

Low-level CGA:

Start time	End time	NO	O2
9:03	9:15	25.4	5.49
9:15	9:27	25.4	5.49
9:27	9:40	25.4	5.49
Average		25.4	5.49
Cal gas value		25.3	5.50
CGA accuracy		0.40%	0.18%

Mid-level CGA:

Start time	End time	NO	O2
9:44	9:56	51.5	8.92
9:56	10:08	51.5	8.92
10:08	10:21	51.5	8.92
Average		51.5	8.92
Cal gas value		52.2	9.02
CGA accuracy		1.34%	1.11%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: CCR Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 (CO) and Magnos 106 (O2)

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 3/22/2011

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-166	CO	low	EB0004205	09/01/12	125	ppm
76-188-166	O2	low	EB0004205	09/01/12	4.98	%
76-188-165	CO	mid	EB0022817	01/04/14	272	ppm
76-188-165	O2	mid	EB0022817	01/04/14	8.98	%

Low-level CGA:

Start time	End time	CO	O2
12:14	12:24	123	5.02
12:24	12:33	123	5.02
12:33	12:42	123	5.02
Average		123	5.02
Cal gas value		125.0	4.98
CGA accuracy		1.6%	0.8%

Mid-level CGA:

Start time	End time	CO	O2
12:42	12:51	269	8.98
12:51	13:00	269	8.98
13:00	13:09	269	8.98
Average		269	8.98
Cal gas value		272	8.98
CGA accuracy		1.1%	0.0%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: SRU Thermal Oxidizer SO2

Analyzer Manufacturer: ABB Advance Optima

Analyzer model #'s: LIMAS-11-UV (SO2) and MAGNOS 106/206 (O2)

Constituents monitored (w/ranges): SO2 (0-500) O2 (0-10%)

Date CGA performed: 3/30/2011

Performed by: Theo Taylor and Glen Senczyszyn

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	SO2	low	EB0027779	01/31/13	129.0	ppm
76-188-219	O2	low	EB0027779	01/31/13	5.50	%
76-188-231	SO2	mid	CC316237	01/31/13	279	ppm
76-188-215	O2	mid	CC316237	01/31/13	9.01	%

Low-level CGA:

Start time	End time	SO2	O2
18:24	18:33	129.1	5.53
18:33	18:42	129.2	5.53
18:42	18:51	128.9	5.53
Average		129.1	5.53
Cal gas value		129	5.5
CGA accuracy		0.1%	0.5%

Mid-level CGA:

Start time	End time	SO2	O2
18:51	19:01	277.7	9.02
19:01	19:10	277.4	9.02
19:10	19:20	276.1	9.02
Average		277.1	9.02
Cal gas value		279	9.0
CGA accuracy		0.7%	0.1%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: East Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000 VISTA II

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: N/A*

Performed by: N/A*

Analyzer: West Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000GC

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 1/25/2011

Performed by: Eric Justa and Doug Pek

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-017	H2S	low	CC300341	01/27/11	74.5	ppm
76-188-019	H2S	mid	EB0024602	11/09/11	162	ppm

East Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
Average		
Cal gas value		
CGA accuracy		

Mid-level CGA:

Start time	End time	H2S
Average		
Cal gas value		
CGA accuracy		

West Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
9:53	9:58	77.9
9:58	10:01	78.0
10:01	10:05	78.1
Average		78.0
Cal gas value		74.5
CGA accuracy		4.7%

Mid-level CGA:

Start time	End time	H2S
10:08	10:13	169
10:13	10:17	170
10:17	10:21	170
Average		169
Cal gas value		162
CGA accuracy		4.6%

* A Relative Accuracy Test Audit (RATA) was conducted on this CEMS 1/18/2011.

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: FCC Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 (CO) and Magnos 106 (O2)

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 2/27/2011

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-166	CO	low	CC275870	03/20/12	124	ppm
76-188-166	O2	low	CC275870	03/20/12	5.08	%
76-188-165	CO	mid	EB0006722	04/30/13	276	ppm
76-188-165	O2	mid	EB0006722	04/30/13	9.00	%

Low-level CGA:

Start time	End time	CO	O2
12:37	12:46	124	5.10
12:46	12:55	124	5.10
12:55	13:04	124	5.10
Average		124	5.10
Cal gas value		124	5.08
CGA accuracy		0.0%	0.4%

Mid-level CGA:

Start time	End time	CO	O2
13:04	13:14	276	9.01
13:14	13:23	276	9.01
13:23	13:32	276	9.01
Average		276	9.01
Cal gas value		276	9.00
CGA accuracy		0.0%	0.1%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Zurn Boiler NOx and O2

Analyzer Manufacturer: Horiba (NOx) and Yokagowa (O2)

Analyzer model #'s: ENDA-1120 (NOx) and ZA8 (O2)

Constituents monitored (w/ranges): NOx (0-500) O2 (0-10%)

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	CC320264	01/08/12	128	ppm
76-188-219	O2	low	109-06-03330	05/27/12	2.00	%
76-188-231	NO	mid	EB0009809	08/13/11	268	ppm
76-188-215	O2	mid	MA116181	01/20/14	8.00	%

NOx Analyzer

Date CGA performed: 2/15/2011
Performed by: Theo Taylor and Eric Justa

Low-level CGA:

Start time	End time	NO
12:40	12:46	128
12:46	12:52	126
12:52	12:58	126
Average		127
Cal gas value		128.0
CGA accuracy		1.0%

Mid-level CGA:

Start time	End time	NO
13:00	13:06	266
13:06	13:12	266
13:12	13:18	266
Average		266
Cal gas value		268
CGA accuracy		0.7%

O2 Analyzer

Date CGA performed: 2/15/2011
Performed by: Theo Taylor and Eric Justa

Low-level CGA:

Start time	End time	O2
10:34	10:38	1.8
10:38	10:42	1.9
10:42	10:46	1.9
Average		1.87
Cal gas value		2.00
CGA accuracy		6.7%

Mid-level CGA:

Start time	End time	O2
10:46	10:50	7.95
10:50	10:54	8.00
10:54	10:58	8.00
Average		7.98
Cal gas value		8.00
CGA accuracy		0.2%